



Sheet 1 of 7

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. RUCC-0064/ 04-053	Application No. 10/532,464
		Applicant Daphne Havkin-Frenkel, et al.	
		Filing Date November 7, 2005	Group Not Yet Assigned
		Confirmation No. 1631	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	1	Attieh, J.M., et al., "Purification and characterization of a novel methyltransferase responsible for biosynthesis of halomethanes and methanethiol in <i>Brassica oleracea</i> ," <i>J. Biol. Chem.</i> , 1995 , 270, 9250-9257	
	2	Auh, C.-K., et al., "Structure and expression of caffeic acid O-methyltransferase cDNAs from tall fescue (<i>Festuca arundinacea</i>)," unpublished, GenBank No. AF153825, http://www.ncbi.nlm.nih.gov , downloaded July 22, 2005 (Abstract 2 pages)	
	3	Benz, "Biotechnological production of vanillin," <u>Flavour Science – Recent Development</u> , Taylor, A.J., et al. (Eds.), <i>The Royal Soc. Of Chem., Cambridge, UK</i> , 1996 , 111-117	
	4	Bout, S., et al., "A candidate-gene approach to clone the sorghum Brown midrib gene encoding caffeic acid O-methyltransferase," <i>Mol. Genet. Genomics</i> , 2003 , 269(2), 205-214, GenBank No. AY217766 (Abstract 3 pages)	
	5	Bugos, R.C., et al., "cDNA cloning, sequence analysis and seasonal expression of lignin-bispecific caffeic acid/5-hydroxyferulic acid O-methyltransferase of aspen," <i>Plant Mol. Biol.</i> , 1991 , 17(6), 1203-1215, GenBank No. X62096 (Abstract 2 pages)	
	6	Campa, C., et al., "Complete sequence of a coffea canephora leaf caffeic acid O-methyltransferase cDNA," unpublished, GenBank No. AF454631, http://www.ncbi.nlm.nih.gov , downloaded July 22, 2005 , (Abstract 2 pages)	
	7	Civolani, C., et al., "Bioconversion of ferulic acid into vanillic acid by means of a vanillate-negative mutant of <i>Pseudomonas fluorescens</i> strain BF13," <i>Appl. Environ. Microbiol.</i> , 2000 , 66(6), 2311-2317	
	8	Collazo, P., et al., "Structure and expression of the lignin O-methyltransferase gene from zea mays L," <i>Plant Mol. Biol.</i> , 1992 , 20(5), 857-867, GenBank No. M73235 (Abstract 2 pages)	
	9	Dignum, M.J., et al., "Vanilla production: technological, chemical, and biosynthetic aspects," <i>Food Rev. Int.</i> , 2001 , 17(2), 199-219	
	10	Frick, S., et al., "Molecular cloning and functional expression of O-methyltransferases common to isoquinoline alkaloid and phenylpropanoid biosynthesis," <i>Plant J.</i> , 1999 , 17(4), 329-339, GenBank No. AF064696 (Abstract 2 pages)	
EXAMINER /Christian Fronda/		DATE CONSIDERED 10/21/2008	

Sheet 2 of 7

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office	Docket No. RUCC-0064/ 04-053		Application No. 10/532,464	
	Applicant Daphne Havkin-Frenkel, et al.			
	Filing Date November 7, 2005		Group Not Yet Assigned	
	Confirmation No. 1631			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)				
	11	Gasson, M.J., et al., "Metabolism of ferulic acid to vanillin," <i>J. Biol. Chem.</i> , 1998 , 273(7), 4163-4170		
	12	Gowri, G., et al., "Molecular cloning and expression of alfalfa S-adenosyl-L-methionine: caffeic acid 3-O-methyltransferase, a key enzyme of lignin biosynthesis," <i>Plant Physiol.</i> , 1991 , 97, 7-14, GenBank No. M63853 (Abstract 2 pages)		
	13	Gross, H.J., et al., "Temperature-dependent inactivation of tRNA ^{Tyr E. coli} acceptor function with iodine: influence of the 3'-terminal pCpA sequence," <i>FEBS Lett.</i> , 1973 , 30(3), 347-350		
	14	Guo, D., et al., "Downregulation of caffeic acid 3-O-methyltransferase and caffeoyl CoA 3-O-methyltransferase in transgenic alfalfa: impacts on lignin structure and implications for the biosynthesis of G and S lignin," <i>Plant Cell</i> , 2001 , 13, 73-88		
	15	Havkin-Frenkel, D.H., et al., "Vanilla," <u>Spices: Flavor Chemistry and Antioxidant Properties</u> , Risch, et al. (Eds.), <i>Am. Chem. Soc.</i> , 1997 , Chapter 4, 29-40		
	16	Havkin-Frenkel, D., et al., "Effect of light on vanillin precursors formation by <i>in vitro</i> cultures of <i>Vanilla planifolia</i> ," <i>Plant Cell, Tissue & Organ Culture</i> , 1996 , 46, 169-170		
	17	Havkin-Frenkel, D., et al., "Vanillin biosynthetic pathways," <u>Plant Cell and Tissue Culture for the Production of Food Ingredients</u> , Fu, T.J., et al. (Eds.), <i>Kluwer Acad. Press/Plenum Publishers, NY</i> , 1997 , Chapter 4, 35-43		
	18	Havkin-Frenkel, D., et al., "Effect of light on vanillin precursors formation by <i>in vitro</i> cultures of <i>Vanilla planifolia</i> ," <i>Plant Cell Tiss. Org. Cult.</i> , 1996 , 45, 133-136		
	19	Jaeck, E., et al., "Expression of class I O-methyltransferase in healthy and TMV-infected tobacco," <i>Mol. Plant Microbe Interact.</i> , 1996, 9(8), 681-688, GenBank No. X74452 (Abstract 2 pages)		
	20	Jang, C.S., et al., "Differential expression of genes induced by larval infestation of Hessian fly in wheat-rye translocation lines carrying 2RL," unpublished, GenBank No. AY226581, http://www.ncbi.nlm.nih.gov , downloaded July 22, 2005 (Abstract 2 pages)		
EXAMINER /Christian Fronda/		DATE CONSIDERED 10/21/2008		

© 2005 WW

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.F./

Sheet 3 of 7

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. RUCC-0064/ 04-053	Application No. 10/532,464
		Applicant Daphne Havkin-Frenkel, et al.	
		Filing Date November 7, 2005	Group Not Yet Assigned
		Confirmation No. 1631	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	21	Klinke, H.B., et al., "Characterization of degradation products from alkaline wet oxidation of wheat straw," <i>Bioresource Techn.</i> , 2002 , 82(1), 15-26	
	22	Lee, J.E., et al., "Genomic sequence and mapping of a methyljasmonate-induced O-methyltransferase from barley (<i>Hordeum vulgare</i> L.)," <i>DNA Seq.</i> , 1997 , 7(6), 357-363, GenBank No. U54767 (Abstract 3 pages)	
	23	Li, T., et al., "Biocatalytic synthesis of vanillin," <i>Appl. & Environ. Microbiol.</i> , 2000 , 66(2), 684-687	
	24	Löscher, R., et al., "Biosynthesis of <i>p</i> -hydroxybenzoate from <i>p</i> -coumarate and <i>p</i> -coumaroyl-coenzyme A in cell-free extracts of <i>lithospermum erythrorhizon</i> cell cultures," <i>Plant Physiol.</i> , 1994 , 106, 271-279	
	25	Maury, S., et al., "Tobacco O-methyltransferases involved in phenylpropanoid metabolism. The different caffeoyl-coenzyme A/5-hydroxyferuloyl-coenzyme A 3/5-O-methyltransferase and caffeic acid/5-hydroxyferulic acid 3/5-O-methyltransferase classes have distinct substrate specificities and expression patterns," <i>Plant Physiol.</i> , 1999 , 121, 215-223	
	26	McAlister, F.E., et al., "Sequence and expression of a stem-abundant caffeic acid O-methyltransferase cDNA from perennial ryegrass (<i>Lolium perenne</i>)," <i>Aust. J. Plant Physiol.</i> , 1998 , 25, 225-235, GenBank No. AF010291 (Abstract 2 pages)	
	27	Micalek, W., et al., "EST sequencing and analysis in barley," unpublished, 2000 , GenBank No. AL505122, http://www.ncbi.nlm.nih.gov , downloaded July 22, 2005 (Abstract 2 pages)	
	28	Michalek, W., et al., "EST sequencing and analysis in barley," unpublished, 2000 , GenBank No. AL504589, http://www.ncbi.nlm.nih.gov , downloaded July 22, 2005 (Abstract 2 pages)	
	29	Narbad, A., et al., "Metabolism of ferulic acid via vanillin using a novel CoA-dependent pathway in a newly-isolated strain of <i>Pseudomonas fluorescens</i> ," <i>Microbiology</i> , 1998 , 144, 1397-1405	
	30	Nüsslein, B., et al., "Enzymatic degradation of cichoric acid in <i>Echinacea purpurea</i> preparations," <i>J. Nat. Prod.</i> , 2000 , 63, 1615-1618 (Abstract, 1 page)	
EXAMINER /Christian Fronda/		DATE CONSIDERED 10/21/2008	

© 2005 WW

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.F./

Sheet 4 of 7

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. RUCC-0064/ 04-053	Application No. 10/532,464
		Applicant Daphne Havkin-Frenkel, et al.	
		Filing Date November 7, 2005	Group Not Yet Assigned
		Confirmation No. 1631	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	31	Overhage, J., et al., "Biochemical and genetic analyses of ferulic acid catabolism in <i>pseudomonas</i> sp. Strain HR199," <i>Appl. Environ. Microbiol.</i> , 1999 , 65(11), 4837-4847	
	32	Overhage, J., et al., "Biotransformation of eugenol to vanillin by a mutant of <i>Pseudomonas</i> sp. Strain HR199 constructed by disruption of the vanillin dehydrogenase (vdh) gene," <i>Appl. Microbiol. Biotechnol.</i> , 1999 , 52(6), 820-828 (Abstract, 2 pages)	
	33	Pak, F.E., et al., "Characterization of a multifunctional methyltransferase from the orchid <i>Vanilla planifolia</i> ," <i>Plant Cell Rep.</i> , 2004 , 22, 959-966	
	34	Parvathi, K., et al., "Substrate preferences of O-methyltransferases in alfalfa suggest new pathways for 3-O-methylation of monolignols," <i>Plant J.</i> , 2001 , 25(2), 193-202 (Abstract, 2 pages)	
	35	Pellegrini, L., et al., "Molecular cloning and expression of a new class of ortho-diphenol-O-methyltransferases induced in tobacco (<i>nicotiana tabacum</i> L.) leaves by infection or elicitor treatment," <i>Plant Physiol.</i> , 1993 , 103, 509-517	
	36	Podstolski, A., et al., "Unusual 4-hydroxybenzaldehyde synthase activity from tissue cultures of the vanilla orchid <i>vanilla planifolia</i> ," <i>Phytochemistry</i> , 2002 , 61(6), 611-620 (Abstract, 1 page)	
	37	Poeydomenge, O., et al., "A cDNA encoding S-adenosyl-L-methionine:caffeic acid 3-O-methyltransferase from <i>Eucalyptus</i> ," <i>Plant Physiol.</i> , 1994 , 105(2), 749-750, GenBank No. X74814 (Abstract 2 pages)	
	38	Priefert, H., et al., "Biotechnological production of vanillin," <i>Appl. Microbiol. Biotechnol.</i> , 2001 , 56(3-4), 296-314 (Abstract, 1 page)	
	39	Schroder, G., et al., "Predicting the substrates of cloned plant O-methyltransferases," <i>Phytochemistry</i> , 2002 , 59(1), 1-8, GenBank No. AY028439 (Abstract 2 pages)	
	40	Selman-Housein, G., et al., "Molecular cloning of cDNAs coding for tree sugarcane enzymes involved in lignification," <i>Plant Sci.</i> , 1999 , 143, 163-171, GeneBank No. AJ231133 (Abstract 2 pages)	
EXAMINER /Christian Fronda/		DATE CONSIDERED 10/21/2008	

© 2005 WW

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.F./

Sheet 5 of 7

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. RUCC-0064/ 04-053	Application No. 10/532,464
		Applicant Daphne Havkin-Frenkel, et al.	
		Filing Date November 7, 2005	Group Not Yet Assigned
		Confirmation No. 1631	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	41	Sugimoto, M., et al., "A root-specific O-methyltransferase gene expressed in salt-tolerant barley," <i>Biosci. Biotechnol. Biochem.</i> , 2003 , 67(5), 966-972, GenBank No. AB086416 (Abstract 2 pages)	
	42	Taylor, W.R., "The classification of amino acid conservation," <i>J. Theor. Biol.</i> , 1986 , 119(2), 205-218 (Abstract, 1 page)	
	43	Venturi, V., et al., "Genetics of ferulic acid bioconversion to protocatechuic acid in plant-growth-promoting <i>pseudomonas putida</i> WCS358," <i>Microbiology</i> , 1998 , 144, 965-973	
	44	Walton, N.J., et al., "Novel approaches to the biosynthesis of vanillin," <i>Curr. Op. Biotechnol.</i> , 2000 , 11, 490-496 (Abstract, 2 pages)	
	45	Wang, J., et al., "Characterization of S-adenosyl-L-methionine ⁺ isoeugenol O-methyltransferase involved in floral scent production in <i>Clarkia breweri</i> ," <i>Arch. Biochem. Biophys.</i> , 1998 , 349(1), 153-160 (Abstract, 2 pages)	
	46	Wang, J., et al., "Floral scent production in <i>Clarkia breweri</i> (Onagraceae)," <i>Plant Physiol.</i> , 1997 , 114, 213-221	
	47	Wang, J., et al., "Nucleotide sequence of S-adenosyl-L-methionine: caffeic acid 3-O-methyltransferase from <i>Clarkia breweri</i> ," <i>Plant Physiol.</i> , 1997 , 114, 1567, GenBank No. AF006009 (Abstract 2 pages)	
	48	Wang, J., et al., "Nucleotide sequences of two cDNAs encoding caffeic acid O-methyltransferases from sweet basil," <i>Plant Physiol.</i> , 1999 , 120(4), 1205, GenBank Nos. AF15417 and AF15418 (Abstract 2 pages)	
	49	Williamson, G., et al., "Hairy plant polysaccharides: a close shave with microbial esterases," <i>Microbiology</i> , 1998 , 144, 2011-2023	
	50	Wing, R., et al., "Development of a genetically and physically anchored EST resource for barley genomics: Morex rachis cDNA library," unpublished, 2001 , GenBank No. B1960224, http://www.ncbi.nlm.nih.gov , downloaded July 22, 2005 (Abstract 2 pages)	
EXAMINER		/Christian Fronda/	DATE CONSIDERED 10/21/2008

© 2005 WW

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.F./

Sheet 6 of 7

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. RUCC-0064/ 04-053	Application No. 10/532,464
		Applicant Daphne Havkin-Frenkel, et al.	
		Filing Date November 7, 2005	Group Not Yet Assigned
		Confirmation No. 1631	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	51	Wing, R., et al., "Development of a genetically and physically anchored EST resource for barley genomics: Morex rachis cDNA library," unpublished, 2001, GenBank No. B1960117, http://www.ncbi.nlm.nih.gov , downloaded July 22, 2005 (Abstract 2 pages)	
	52	Wing, R., et al., "Development of a genetically and physically anchored EST resource for barley genomics: Morex rachis cDNA library," unpublished, 2001, GenBank No. B1957415, http://www.ncbi.nlm.nih.gov , downloaded July 22, 2005 (Abstract 2 pages)	
	53	Xue, Z.-T., et al., "Kinetin-induced caffeic acid 0-methyltransferases in cell suspension cultures of <i>Vanilla planifolia</i> Andr. And isolation of caffeic acid 0-methyltransferase cDNAs #," <i>Plant Physiol. Biochem.</i> , 1998, 36(11), 779-788	
	54	Zubietta, C., et al., "Structural basis for the modulation of lignin monomer methylation of caffeic acid/5-hydroxyferulic acid 3/5-O-methyltransferase," <i>Plant Cell</i> , 2002, 14, 1265-1277	
EXAMINER /Christian Fronda/		DATE CONSIDERED 10/21/2008	

© 2005 WW

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.F./

Sheet 7 of 7

Form PTO-1449 Modified

List of Patent and Publications
Cited by Applicant
(Use several sheets if necessary)

U.S. Department of Commerce
Patent and Trademark Office

Docket No.
RUCC-0064/
04-053

Application No.
10/532,464

Applicant
Daphne Havkin-Frenkel, et al.

Filing Date
November 7, 2005

Group
Not Yet Assigned

Confirmation No.
1631

U. S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass
	55	2003/0070188 A1	04/10/03	Havkin-Frenkel, et al.	800	278

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Country	Translation	
					YES	NO

EXAMINER /Christian Fronda/

DATE CONSIDERED

10/21/2008